

ABSTRACT

A light instrumentation system for measuring optical power or intensity of an input as wavelength of the input varies with respect to a time includes a reference providing a detectable optical power or intensity upon encountering a wavelength having a prescribed value, and a detector system coordinated with the reference and providing a detectable feature for measuring the optical power or intensity.

A method of testing an object using electromagnetic energy includes illuminating the object using electromagnetic energy while sweeping the electromagnetic energy over a range of wavelengths, measuring electromagnetic energy from the object in response to such illuminating, coordinating the measuring step with one or more distinct wavelength points of the sweep determined by a wavelength dependent transmission device to which the electromagnetic energy is directed.

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